Figure 1

AVPSTQTPWG AASQSTPWG	IKSIYNDQSI IKAIYNNSNL	TSTTGGSGIN TKTTGGSGIK TSTSGGAGIN TQTSGGGGIN	VAVLDTGVYT IAVLDTGVNT	SHLDLAGSAE NHPDLSNNVE	50 49	B.sphaericus TY145 TA41 TA39
***AQSVPWG	ISRVQAPAAH	NRGLTGSGVK	VAVLDTGIS*	THPDL**NIR	44	Savinase
OCKDFTGATT	PINNSCTDRN	GHGTHVAGTA	LADGGSDQAG	IYGVAPDADL	99	
		GHGTHVAGTV			100	
		GHGTHVAGSA			98	
		GHGTHVAGSA			98	
 GGASFVPGEP	****STQDGN	GHGTHVAGTI	AALNN**SIG	VLGVAPSAEL	88	
WAYKVLLDSG	SGYSDDIAAA	IRHAADQATA	TGTKTIISMS	LGSSANNSLI	149	
		IRHVADEASR				
		IRHAGDQATA				
		IRHAGDQATA				
	•	-		•		
YAVKVLGASG	SGSVSSIAQG	LEWAGNNG**	***MHVANLS	LGSPSPSATL	133	
SSAVNYAYSK	GVLIVAAAGN	SGYSQGTIGY	PGALPNAIAV	AALENVQQNG	199	
		SGSGSNTIGF				
		SGPKPGSIGY				
		SGPYQGSIGY				
EQAVNSATSR	GVLVVAASGN	SGA**GSISY	PARYANAMĀV	GATDQN****	177	
TYRVADYSSR	GYISTAGDYV	IQEGDIEISA	PGSSVYSTWY	NGGYNTISGT	249	
		IQERDIEVSA				
		IQKGDVEISA				
		IQKGDVEISA				
		~	•	•		
*NNRASFSQY	GA******	****GLDIVA	PGVNVQSTYP	GSTYASLNGT	214	
SMATPHVSGL	AAKIWAENPS	LSNTQLRSNL	OERAKSVDIK	GGYGAAIGDD	299	
		LSHSQLRTEL				
		ASNVDVRGEL				
		ASNVDVRGEL				
SMATPHVAGA	AALVKQKNPS	WSNVQIRNHL	KNTA**TSLG	*******ST	254	
YASGFGFARV	0			3	10	
YASGFGYPRV					11	
IASGFGFAKV					09	
FASGFGFATV	-				09	
NLYGSGLVNA	_				69	

Figure 2

```
20
                                                            30
No: 1
                     10
a) A-O-S-V-P-Y-G-V-S-Q-I-K-A-P-A-L-H-S-Q-G-Y-T-G-S-N-V-K-V-A-V-
   A-O-S-V-P-W-G-I-S-R-V-Q-A-P-A-A-H-N-R-G-L-T-G-S-G-V-K-V-A-V-
                     40
                                         50
No:
             36
a)
   I-D-S-G-I-D-S-S-H-P-D-L-K-V-A-G-G-A-S-M-V-P-S-E-T-N-P-F-Q-D-
    L-D-T-G-I-*-S-T-H-P-D-L-N-I-R-G-G-A-S-F-V-P-G-E-P-*-S-T-O-D-
                     70
                                         80
                                                            90
No:
   N-N-S-H-G-T-H-V-A-G-T-V-A-A-L-N-N-S-I-G-V-L-G-V-A-P-S-A-S-L-
a)
   100
                                         110
                                                            120
No:
   Y-A-V-K-V-L-G-A-D-G-S-G-O-Y-S-W-I-I-N-G-I-E-W-A-I-A-N-N-M-D-
a)
    Y-A-V-K-V-L-G-A-S-G-S-G-S-V-S-S-I-A-Q-G-L-E-W-A-G-N-N-G-M-H-
                     130
                                         140
                                                            150
No:
   V-I-N-M-S-L-G-G-P-S-G-S-A-A-L-K-A-A-V-D-K-A-V-A-S-G-V-V-V-V-
a)
   V-A-N-L-S-L-G-S-P-S-P-S-A-T-L-E-Q-A-V-N-S-A-T-S-R-G-V-L-V-V-
                                                           180
                    160
                                        170
No:
   A-A-G-N-E-G-T-S-G-S-S-S-T-V-G-Y-P-G-K-Y-P-S-V-I-A-V-G-A-V-
a)
   A-A-S-G-N-S-G-A-*-G-S-I-S-*-*-*-Y-P-A-R-Y-A-N-A-M-A-V-G-A-T-
                     190
                                         200
No:
   D-S-S-N-O-R-A-S-F-S-S-V-G-P-E-L-D-V-M-A-P-G-V-S-I-Q-S-T-L-P-
a)
    D-Q-N-N-N-R-A-S-F-S-Q-Y-G-A-G-L-D-I-V-A-P-G-V-N-V-Q-S-T-Y-P-
                                         230
                                                            240
No:
                     220
    G-N-K-Y-G-A-Y-N-G-T-S-M-A-S-P-H-V-A-G-A-A-A-L-I-L-S-K-H-P-N-
a)
    G-S-T-Y-A-S-L-N-G-T-S-M-A-T-P-H-V-A-G-A-A-A-L-V-K-Q-K-N-P-S-
No:
                     250
                                         260
                                                            270
    W-T-N-T-O-V-R-S-S-L-E-N-T-T-T-K-L-G-D-S-F-Y-Y-G-K-G-L-I-N-V-
a)
    W-S-N-V-O-I-R-N-H-L-K-N-T-A-T-S-L-G-S-T-N-L-Y-G-S-G-L-V-N-A-
No:
           275
   Q-A-A-A-Q
a)
b) E-A-A-T-R
```

a) = BPN'b) = Savinase

Figure 3

